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DATE: Friday, June 17, 2005

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DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=ADJ											
	L15	L14 and mist	22								
Ü	L14	L13 and antigen	269								
I	L13	L12	269								
DB=USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ											
	L12	L9 and nebulizer	269								
	L11	L10 and mist	0								
	L10	L9 and reverse adj thermal	. 6								
	L9	L8 and antigen	2204								
	L8	L3	7094								
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m	L5	L4	0								
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	L4	L3 and polyoxyakylene	1								
	L3	L2 and copolymer	7094								
	L2	L1	74218								
	DB=PGPB,U	SPT,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=	YES; OP=ADJ								
	L1	pharmaceutical adj composition	162589								

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35.41 35.68

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0.45 36.13

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=> copolymer

559466 COPOLYMER

181723 COPOLYMERS

L7 607168 COPOLYMER

(COPOLYMER OR COPOLYMERS)

=> antigen

273361 ANTIGEN

218506 ANTIGENS

L8 342775 ANTIGEN

(ANTIGEN OR ANTIGENS)

=> L1 and L2

L9 1425 L1 AND L2

=> chitosan

20126 CHITOSAN

966 CHITOSANS

L10 20165 CHITOSAN

(CHITOSAN OR CHITOSANS)

=> 9 and L10

1756639 9

L11 1275 9 AND L10

=> L10 and L9

L12 33 L10 AND L9

=> D L12 IBIB ABS 11-33

```
=> pluronic
     5910 PLURONIC
     326 PLURONICS
L13
       6020 PLURONIC
        (PLURONIC OR PLURONICS)
=> L10 and L13
       100 L10 AND L13
L14
=> antigen and L14
    273361 ANTIGEN
    218506 ANTIGENS
    342775 ANTIGEN
        (ANTIGEN OR ANTIGENS)
        16 ANTIGEN AND L14
L15
=> D L15 IBIB ABS 1-16
=> POE (s) POP and L10
     1454 POE
      68 POES
     1491 POE
        (POE OR POES)
     2577 POP
     811 POPS
     3240 POP
        (POP OR POPS)
      76 POE (S) POP
L19
        0 POE (S) POP AND L10
=> POE (w) POP
     1454 POE
      68 POES
     1491 POE
        (POE OR POES)
     2577 POP
     811 POPS
     3240 POP
        (POP OR POPS)
L20
        43 POE (W) POP
=> antigen and L20
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273361 ANTIGEN

218506 ANTIGENS 342775 ANTIGEN (ANTIGEN OR ANTIGENS) L21 1 ANTIGEN AND L20

=> chitosan and L20
20126 CHITOSAN
966 CHITOSANS
20165 CHITOSAN
(CHITOSAN OR CHITOSANS)
L22
0 CHITOSAN AND L20

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New/Noteworthy	#15 Search	robert D and polymer	08:35:05	10
E-Utilties	<u>#14</u> Search	robert D and polymeric	08:34:56	<u>0</u>
PubMed Services	#13 Search	prokop A 2001	08:34:39	<u>17</u>
Journals Database MeSH Database Single Citation Matcher	#12 Search 2001/0	<pre>prokop A 2001 Limits: Publication Date to 3/23</pre>	08:34:10	<u>5</u>
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Jun 6 2005 07:23:23

L15 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

2001:900424 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 137:77483

TITLE: ProJuvant (Pluronic F127/chitosan)

enhances the immune response to intranasally

administered tetanus toxoid

Julie Westerink, M. A.; Louise Smithson, S.; AUTHOR(S):

Srivastava, Neeti; Blonder, Joan; Coeshott, Claire;

Rosenthal, Gary J.

CORPORATE SOURCE: Department of Medicine, Medical College of Ohio,

Toledo, OH, 43614, USA

Vaccine (2001), 20(5-6), 711-723 SOURCE:

CODEN: VACCDE; ISSN: 0264-410X

PUBLISHER: Elsevier Science Ltd.

Journal DOCUMENT TYPE: LANGUAGE: English

The potential to generate both a systemic and local immune response makes the mucosal system an attractive site for immunization. However, mucosal administration of protein and peptide antigens generally results in a poor immune response. Successful mucosal vaccination is therefore largely dependent on the development of effective mucosal adjuvants. In this study we have examined the effect of mucosal administration of tetanus toxoid (TT) in the presence of a non-ionic block copolymer,

Pluronic F127 (F127), with chitosan or

lysophosphatidylcholine (LPC) on the systemic and mucosal immune response. Balb/c mice, immunized i.p. with TT and boosted intranasally (i.n.) with TT in F127/chitosan, demonstrated a significant enhancement in the systemic anti-TT antibody response compared to mice boosted i.n. with TT in PBS or mice boosted i.n. with TT in F127/LPC. We determined the antigen specific IgA response in the nasal and lung washes of these animals and found a significant increase in anti-TT mucosal IgA response in the group boosted with TT in F127/chitosan. Similarly, mice immunized and boosted i.n. with TT in F127/ chitosan had a significant enhancement of their systemic anti-TT IgG and mucosal IgA antibody responses compared to the animals immunized and boosted i.n. with TT in PBS or TT in F127/LPC. The results of these studies suggest that F127/chitosan represents a novel mucosal vaccine delivery system, consisting of two components, that appear to exert an additive or synergistic effect on the immune response.

REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:743943 CAPLUS

DOCUMENT NUMBER: 136:406724

TITLE: Water-based nanoparticulate polymeric system for

protein delivery

AUTHOR (S): Prokop, Ales; Holland, Celia A.; Kozlov, Evgenii;

Moore, Billy; Tanner, Robert D.

CORPORATE SOURCE: Chemical Engineering Department, Vanderbilt

University, Nashville, TN, 37235, USA

Biotechnology and Bioengineering (2001), 75(2),

228-232 CODEN: BIBIAU; ISSN: 0006-3592

PUBLISHER: John Wiley & Sons, Inc.

DOCUMENT TYPE: Journal

SOURCE:

LANGUAGE: English

This article features a new production technol. for nanoparticles comprised of multicomponent polymeric complexes that are candidates for delivery vehicles of biol. mols. such as proteins and drugs. Biocompatible and mostly natural polymers are fabricated into thermodynamically stable nanoparticles insol. in water and buffered media, in the absence of organic solvents, using two types of processing: batch and continuous. Careful choice of construction materials and the superposition of several interacting principles during their production allow for the customization of the physicochem. properties of the structures. Detailed expts. in batch and continuous systems allowed time-dependent stoichiometric characterization of the production process and an understanding of fundamental assembly principles of such supramol. structures. Continuous-flow production is shown to provide more consistent data in terms of product quality and consistency, with further possibility of process development and commercialization. The development of nanoparticles using the described methodol. is expected to lead to a flexible nanoparticle drug delivery system for medical applications, which has particular bearing to the slow release of drugs, antigens (for vaccine design), and genes (for gene therapy). Several chemistries of particles are presented.

REFERENCE COUNT:

8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMA

L15 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:489214 CAPLUS

DOCUMENT NUMBER: 135:82005

TITLE: Drug delivery system based on multicomponent

water-soluble polymers exhibiting permeability control

INVENTOR(S): Prokop, Ales

PATENT ASSIGNEE(S): Nanodelivery, Inc., USA SOURCE: PCT Int. Appl., 23 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	rent :	NO.			KIN	D	DATE		i	APPL	ICAT	ION 1	NO.		D.	ATE	
WO	2001	0475	01		A1	_	2001	0705	Ţ	WO 2	000-	US35!	587		2	0001	229
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		CN,	CR,	CU,	CZ,	CZ,	DE,	DE,	DK,	DK,	DM,	DZ,	EE,	EE,	ES,	FI,	FI,
		GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,
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							GA,									•	•
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US	6589	563			B2		2003	0708									
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AΒ Microparticles and nanoparticles prepared from oppositely charged polymers are provided in which a drug is incorporated into the core and is conjugated to one polymer by a Schiff-base crosslink. The particles are suitable for use in injectable formulations in which the rate of release of the drug through the particle shell is slowed as compared to non-crosslinked drugs. Enzymically degradable polymers can be incorporated in otherwise hydrolytically stable particles to provide drug release at particular sites within the body where the enzyme of interest is present. For example, crosslinked protein-loaded nanoparticles were prepared from (i) a droplet-forming polyanionic solution composed of high-viscosity sodium alginate, cellulose sulfate, a protein (ovalbumin), and dextran polyaldehyde (PDA), and (ii) a corona-forming polycationic solution composed of spermine hydrochloride, poly(methylene-co-quanidine) hydrochloride, CaCl2, and Pluronic F 68. The Schiff-base product between the anionic groups of ovalbumin and aldehyde group of PDA allowed an adjustment of release via ion exchange as opposed to no release for permanently bound ovalbumin.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS

L15 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2000:688125 CAPLUS

DOCUMENT NUMBER:

133:271737

TITLE:

Mineralization and cellular patterning on biomaterial

INVENTOR(S):

Murphy, William L.; Peters, Martin C.; Mooney, David

J.; Kohn, David H.

PATENT ASSIGNEE(S):

The Regents of the University of Michigan, USA

PCT Int. Appl., 78 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.								APPLICATION NO.						DATE			
W	2000	0563	75		A2		2000	0928		WO	2000-	US72	07	<u>-</u>	2	30000	317	
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biomaterial surfaces. The techniques described are particularly useful for generating three-dimensional or contoured bioimplant materials with patterned surfaces or patterned, mineralized surfaces. Also provided are various methods of using the mineralized and/or patterned biomaterials in tissue engineering, such as bone tissue engineering, providing more control over ongoing biol. processes, such as mineralization, growth factor release, cellular attachment and tissue growth. Polylactide-glycolide films were treated with NaOH to create surface functional groups, then incubated at 37° in simulated physiol. fluids for 16 days to form carbonated apatite minerals on the surface.

NSWER 15 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:658676 CAPLUS

DOCUMENT NUMBER: 137:181929

Simultaneous stimulation and concentration of cells TITLE: INVENTOR(S): . Berenson, Ronald; Law, Che; Bonyhadi, Mark; Saund,

Narinder; Craig, Stewart; Hardwick, Alan; Kalamasz,

Dale; McMillen, David

Xcyte Therapies, Inc., USA PATENT ASSIGNEE(S):

U.S. Pat. Appl. Publ., 73 pp., Cont.-in-part of U.S. SOURCE:

Ser. No. 794,230.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	ATENT				KIN		DATE			APPL	I CAT	ION 1	NO.		D.	ATE	
US	s 2002 s 6797	1195			A1 B2		2002			US 2	001-	9602	54		2	0010	920
US	S 2002 S 6905	0580	19		A1 B2		2002	0516		US 2	001-	7942	30		2	0010	226
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		ΙE,	FI,		TR									·			
	S 2003		22		A1 B2		2003			US 2	002-	1332	36		2	0020	426
	S 6867 S 2003		85		A1		2005			US 2	002-	1974	57		2	0020	528
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		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	ΚP,	KR,	KZ,	LC,	LK,	LR,
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AB The present invention relates generally to methods for stimulating cells, and more particularly, to a novel method to concentrate and stimulate cells that maximizes stimulation and/or proliferation of such cells. In the various embodiments, cells are stimulated and concentrated with a surface yielding enhanced proliferation, cell signal transduction, and/or cell surface moiety aggregation. In certain aspects methods for stimulating a population of cells such as T-cells, by simultaneous concentration and cell surface moiety ligation are provided by contacting the population of cells

with a surface, that has attached thereto one or more agents that ligate a cell surface moiety and applying a force that predominantly drives cell concentration and cell surface moiety ligation, thereby inducing cell stimulation, cell surface moiety aggregation, and/or receptor signaling enhancement. Also provided are methods for producing phenotypically tailored cells, including T-cells for the use in diagnostics, drug discovery, and the treatment of a variety of indications, including cancer, viral infection, and immune related disorders. Compns. of cells having specific phenotypic properties produced by these processes are further provided.

12 ANSWER 17 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2002:350517 CAPLUS

DOCUMENT NUMBER:

138:112154

TITLE:

Development of Japanese encephalitis vaccine delivery

with chitosan and polyesters

AUTHOR(S):

Ritthidej, G. C.; Chomto, P.; Lipipun, V.

CORPORATE SOURCE: Department of Industrial Pharmacy, Chulalongkorn

University, Bangkok, 10330, Thailand

SOURCE:

Proceedings - 28th International Symposium on Controlled Release of Bioactive Materials and 4th Consumer & Diversified Products Conference, San Diego, CA, United States, June 23-27, 2001 (2001), Volume 2, 1089-1090. Controlled Release Society: Minneapolis,

Minn.

CODEN: 69CNY8

DOCUMENT TYPE:

Conference English

LANGUAGE:

JE antigen-chitosan microspheres were compared to antigen-polyester (PLA or PLGA) microspheres. The size of both microspheres was similar whereas the topog. and the loading level were different. The release of protein was affected by amount of antigen , the ratio of copolymer or mol. weight and amount of chitosan but not the amount of polyester and the sonication rate. Passive diffusion with erosion or degradation of polymer was mechanism of release.

L12 ANSWER 21 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2001:900424 CAPLUS

DOCUMENT NUMBER:

137:77483

TITLE:

ProJuvant (Pluronic F127/chitosan) enhances

the immune response to intranasally administered

tetanus toxoid

AUTHOR (S):

Julie Westerink, M. A.; Louise Smithson, S.;

Srivastava, Neeti; Blonder, Joan; Coeshott, Claire;

Rosenthal, Gary J.

CORPORATE SOURCE:

Department of Medicine, Medical College of Ohio,

Toledo, OH, 43614, USA

SOURCE:

Vaccine (2001), 20(5-6), 711-723 CODEN: VACCDE; ISSN: 0264-410X

PUBLISHER:

Elsevier Science Ltd.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

53

AR The potential to generate both a systemic and local immune response makes the mucosal system an attractive site for immunization. However, mucosal administration of protein and peptide antigens generally results in a poor immune response. Successful mucosal vaccination is therefore largely dependent on the development of effective mucosal adjuvants. In this study we have examined the effect of mucosal administration of tetanus toxoid (TT) in the presence of a non-ionic block copolymer, Pluronic F127 (F127), with chitosan or lysophosphatidylcholine (LPC) on the systemic and mucosal immune response. Balb/c mice, immunized i.p. with TT and boosted intranasally (i.n.) with TT in F127/ chitosan, demonstrated a significant enhancement in the systemic anti-TT antibody response compared to mice boosted i.n. with TT in PBS or mice boosted i.n. with TT in F127/LPC. We determined the antigen specific IqA response in the nasal and lung washes of these animals and found a significant increase in anti-TT mucosal IgA response in the group boosted with TT in F127/chitosan. Similarly, mice immunized and boosted i.n. with TT in F127/chitosan had a significant enhancement of their systemic anti-TT IgG and mucosal IgA antibody responses compared to the animals immunized and boosted i.n. with TT in PBS or TT in F127/LPC. The results of these studies suggest that F127/ chitosan represents a novel mucosal vaccine delivery system, consisting of two components, that appear to exert an additive or synergistic effect on the immune response.

REFERENCE COUNT:

THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1999:220014 CAPLUS

DOCUMENT NUMBER:

130:249137

TITLE:

Novel targeted ultrasound imaging contrast agents for

diagnostic and therapeutic use

INVENTOR(S):

Unger, Evan C.; Fritz, Thomas A.; Gertz, Edward W.

PATENT ASSIGNEE(S):

ImarRx Pharmaceutical Corp., USA

PCT Int. Appl., 223 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9913919 W: AU, CA	A1	19990325	WO 1998-US18858	19980909
• .	CY, DE	, DK, ES,	FI, FR, GB, GR, IE, I	T, LU, MC, NL,
US 6139819	A	20001031	US 1997-932273	19970917
AU 9893830	A1	19990405	AU 1998-93830	19980909
EP 959908	A1	19991201	EP 1998-946919	19980909
R: DE, FR, GB,	ΙT			
PRIORITY APPLN. INFO.:			US 1997-932273	A 19970917
			US 1995-497684	B2 19950607
			US 1996-640464	B2 19960501
			US 1996-660032	B2 19960606
			US 1996-666129	A2 19960619
			WO 1998-US18858	W 19980909

This invention describes novel contrast agents which may be used for AΒ diagnostic and therapeutic use. The compns. may comprise a lipid, a protein, polymer and/or surfactant, and a gas, in combination with a targeting ligand. In preferred embodiments, the targeting ligand targets coagula, including emboli and/or thrombi, particularly in patients suffering from an arrhythmic disorder. The contrast media can be used in conjunction with diagnostic imaging, such as ultrasound, as well as therapeutic applications, such as therapeutic ultrasound.

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L12 ANSWER 28 OF 33 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:98309 CAPLUS

DOCUMENT NUMBER: 128:172122

TITLE: Application of nanoparticles based on hydrophilic

polymers as pharmaceutical forms

INVENTOR (S): Alonso Fernandez, Maria Jose; Calvo Salve, Pilar;

Remunan Lopes, Carmen; Vila Jato, Jose Luis Universidad de Santiago de Compostela, Spain

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3

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RW: AT, BE, CH,	DE, DK	, ES, FI, 1	FR, GB, GR, IE, IT, LU	J, MC, NL, PT, SE
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Nanoparticles based on the hydrophilic polymers, chitosan AΒ (derivs.) or polyoxyethylene (derivs.), associate with high-mol.-weight active agents in the aqueous phase and are useful for administration of these agents without use of organic solvents or auxiliary toxic substances. The loading capacity of the nanoparticles is extremely high, and the active agent is released in a controlled manner over an extended period. The nanoparticles have a pos. surface elec. charge with a magnitude which depends on their composition Thus, 5 mg tetanus toxoid was added to 25 mL 0.05M AcOH solution (pH 5) containing 0.2 weight% chitosan, followed by addition of 10 mL 0.1% tripolyphosphate solution and stirring for 30 min. resulting particles had a size of 245 nm, ζ potential 35 mV, and 53% binding of the toxoid.

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT